

EXHIBIT A

CURRICULUM VITAE

Name: Jay Arthur Berzofsky

Date and Place of Birth: April 13, 1946, Baltimore, Maryland

Marital Status: Married to Sharon M. Miller; two children
Alexander, April 30, 1974, and Marcus, May 27, 1976

Education:

1967 - A.B., Harvard University (Summa Cum Laude in Chemistry)
1971 - Ph.D., Albert Einstein College of Medicine, Molecular Biology
1973 - M.D., Albert Einstein College of Medicine, Medical Scientist
Training Program

Brief Chronology of Employment:

1973 - 1974	Medical Internship (Straight Medicine), Massachusetts General Hospital, Boston, Massachusetts
1974 - 1976	Research Associateship, Laboratory of Chemical Biology National Institute of Arthritis, Metabolism, and Digestive Diseases, National Institutes of Health
1976 - 1979	Investigator ("Expert"), Metabolism Branch, National Cancer Institute, National Institutes of Health
1979 - 1987	Senior Investigator, Metabolism Branch, National Cancer Institute, National Institutes of Health
1987 - 2003	Chief, Molecular Immunogenetics and Vaccine Research Section, Metabolism Branch, National Cancer Institute, National Institutes of Health
2004 – Date	Chief, Vaccine Branch, Center for Cancer Research, National Cancer Institute, National Institutes of Health

Honors/Awards:

Detur Prize, Harvard University, 1964
Harvard College Scholarship, Harvard University, 1964
Phi Beta Kappa, Junior Year, Harvard University, 1966
Summa Cum Laude in Chemistry, Harvard University, 1967
Sophia Freund Prize for Graduate with Highest Cumulative Grade Point Average, Harvard College, 1967
NIH Special Achievement Award, 1982

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Hollister - Stier's Distinguished Lectureship, Washington State University, 1986
J. W. McLaughlin Fund Distinguished Contributions to Immunology Lectureship, University of Texas Medical School, Galveston, 1987
U. S. Public Health Service Superior Service Award, 1988
31st Michael Heidelberger Award and Lecture, Columbia University, 1992
McLaughlin Visiting Professorship, University of Texas Medical School, Galveston, 1992
American Society for Clinical Investigation, President 1993-94
Fellow of the American Association for the Advancement of Science, 1995
Cytokine Interest Group Best Paper of 2000 Award to fellow in lab, 2001
The 2004 Tadeusz J. Wiktor Memorial Lecture, Wistar Institute, University of Pennsylvania, Philadelphia, PA., November 17, 2004
Chair, Medical Sciences Section, American Association for the Advancement of Science, 2007-2008
The Herschel Zackheim Lectureship Award, International Society for Cutaneous Lymphomas, 2007
Distinguished Alumnus of the Year Award 2007, Albert Einstein College of Medicine
NIH Director's Award, 2008
NIH/NCI Merit Award, 2008

Professional Society Memberships:

Association of Harvard Chemists, 1967 - present
New York Academy of Sciences, 1971 - present
American Association of Immunologists, 1977 - present
Undersea Medical Society, 1978 - 1988
American Federation for Clinical Research, 1979 - present
American Society of Biological Chemists, 1980 - present
American Society for Clinical Investigation, 1983 - present,
Secretary-Treasurer, 1989 - 1992
President-elect, 1992-1993
President, 1993-94
Association of American Physicians, 1990 – present
American Association for the Advancement of Science, Fellow 1995-present;
Chair of Medical Sciences Section, 2007-2008
American Association for Cancer Research, 2006 - present
Faculty of 1000, 2006-present

Editorial Positions:

Associate Editor, *Journal of Immunology*, 1980 - 1984
Editorial Advisory Board, *Journal of Molecular and Cellular Immunology*, 1983-88
Advisory Editor, *Molecular Immunology*, 1985 - 1988
Editorial Board, *Peptide Research*, 1987 - present
Transmitting Editor, *International Immunology*, 1988 - 2000
Editorial Board, *Journal of Human Virology*, 1997-present
Consulting Editor, *Journal of Clinical Investigation*, 1998-2005

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Section Editor, *Clinical Immunology*, 2002-2007

Associate Editor, *Clinical Cancer Research*, 2002-present

Professional Committees and Activities:

American Association of Immunologists, Membership Committee, 1981 - 1988

American Association of Immunologists, Chairman of Membership Committee, 1983 - 1988

NIH Clinical Center Compensable Events Committee, 1982 - present

American Society for Clinical Investigation, Council, 1989-1994 (President, 1993-94)

NCI Division of Clinical Sciences Promotion and Tenure Committee, 1995-2001.

NCI Division of Clinical Sciences Research Advisory Group, 1995-2001

NCI Director's Intramural Advisory Board, 1997-99

NIH AIDS Vaccine Research Center Steering Committee, 1997-present

NIH Search Committee for Director of Office of AIDS Research, 1997-98

NIAID Malaria Vaccine Task Force, 1998-present

NCI Vaccine Working Group, Chairman/Organizer, 1998-present

NCI/CCR Immunology Faculty Steering Committee, 2001-present

NCI/CCR HIV & Virology Faculty Steering Committee, 2001-present

NCI/CCR Frontiers in Science Newsletter Editorial Board, 2001-present.

NCI/NIH Committee for Biodefense, founding member, 2001-present.

NCI Center of Excellence in Immunology, Steering Committee, 2003-present.

NIH CRADA 01361 with Genzyme Corporation. Co-principal Investigator, 2003-present

Advisory Committee, Harvard Blood Center, 2004-present

External Advisory Committee, University of London, 2006-present.

NCI Center of Excellence in HIV & Cancer Viruses, Executive Committee, 2006-present

NIAID AIDS Vaccine Research Subcommittee, 2007-present

NIH Director's Biennial Report to Congress, 2007, Team Leader for Cancer topic.

NCI Cancer & Inflammation Program Tenure Track Search Committee, Chair, 2007-2008.

NIAID Laboratory of Malaria Immunology & Vaccines Lab Chief Search Committee, 2008.

Military Service:

Commissioned Corps, United States Public Health Service, 1974 - 1976

Other Research Experience:

Summers, 1962 - 1965 Research Assistant, Pediatric Research Unit (H. M. Nitowsky), Sinai Hospital, Baltimore, Maryland

Summer, 1966 Research Assistant, Organic Synthesis Laboratory
C. H. Robinson), Department of Pharmacology, Johns Hopkins School of Medicine, Baltimore, Maryland

Summer, 1967 Visiting Scientist, Laboratoire d'Enzymologie (G. N. Cohen), Centre National de la Recherche Scientifique, Gif-sur-Yvette, France

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Medical Licensure: Maryland and Massachusetts

Major Outside Activities (Not permitted by NIH after 2005)

Medimmune, Inc.—Scientific Founder and Chair, Scientific Advisory Board, 1989-2002
Magainin Pharmaceuticals, Inc.—Member, Scientific Advisory Board, 1991-97
Diacrin, Inc.—Member, Scientific Advisory Board, 1993-2002
Pharmadyne, Inc.—Scientific Co-Founder and Chair, Scientific Advisory Board, 1997-2004
Boston University Community Technology Fund—Consultant, 1997-1999
Health Care Ventures, Inc.—consultant, 1998
EMD Pharmaceuticals, Inc.—consultant, 2000-2003
Epivax, Inc.—Member, Scientific Advisory Board, 2000-2004
Therapeutic Devices, Inc.—consultant, 2002-2004
Transform Pharmaceuticals, Inc.—consultant 2002-2005
Celera Genomics, Inc.—consultant 2002-2004
Genencor International, Inc.—consultant 2003-2004.

Major areas of research:

1. Molecular basis of antigen recognition by T lymphocytes
2. Processing of antigens and their presentation by major histocompatibility molecules
3. Structure of antigenic sites on protein antigens
4. Genetic regulation of the immune response
5. Design and development of artificial vaccines based on immunological principles and peptide synthesis or recombinant DNA technology
6. AIDS vaccines and diagnostic techniques
7. Malaria vaccines
8. Cancer vaccines
9. Antigen-antibody interactions
10. Structure-function relationships in proteins and protein conformation.
11. Regulation of tumor immunosurveillance and T cell function by cytokines and regulatory cells
12. NKT cells in the regulation of tumor immunity
13. Mucosal immunity and vaccines
14. Cytokines, chemokines, and TLR ligands as immune modulators and vaccine adjuvants.